Kiilto® WETROOM SYSTEM

INSTALLATION INSTRUCTIONS FOR KIILTO FOIL SYSTEMS FOR WETROOMS

Water vapour permeability 2 600 000 s/m

KiiLTO PRO

ETAG 022   C E   M1   EMISSIONSKLASS FÖR BYGGNADSMATERIAL

WALL WITH KERASAFE+ FOIL SYSTEM

The instructions apply to wet zone 1 or the entire wetroom area.

START WITH THE WALLS...*
KeraSafe+ (water and vapor proof foil) is to be installed with Kiilto K2 Tätskikt, M1000 ECO or KeraSafe Speed on an absorbing substrate. All length are to overlap by 5 cm. Joints and tape must always be installed with KeraSeal or KeraSafe Speed.

* Exception. If a floor drain is of type close-to-wall-drain, follow the instructions in complete installation guide at www.kiilto.se
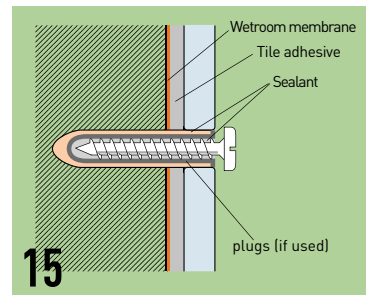

1. Roll och brush Kiilto Keraprimer on a absorbing substrate. Let dry. (If KeraSafe+ wetroom foil is to be installed with M1000 ECO, Keraprimer is not needed). **2.** Measure and cut KeraSafe+ foil (from floor to ceiling) and add 5 cm extra for folding foil onto the floor. **3.** Measure 95 cm from the inner corner and draw a vertical line, and then install KeraSafe+ aligned with the line, creating an excess of 5 cm in the corner for an overlapping fit.

4. Apply Kiilto K2, M1000 ECO or KeraSafe Speed with a brush at the angle of floor and wall. At least 5 cm out into the floor and up the wall. **5.** Continue immediately to apply a generous coat of Kiilto K2, M1000 ECO or KeraSafe Speed onto the entire wall surface area that is to be covered with KeraSafe+ Approx. consumption: Kiilto K2: 0.4 kg/m², M1000 ECO: 0.25 litres/m², KeraSafe Speed: 0.6 kg/m².
6. Firmly press /install the KeraSafe+ along the entire wall area 5 cm beyond the inner corner and 5 cm out onto the floor. Important. This must be done when the Kiilto K2, M1000 ECO or KeraSafe Speed is still wet. **7.** Press out any air from behind the KeraSafe+ using a plastic putty to ensure the KeraSafe+ are in 100% contact with the Kiilto K2, M1000 ECO or KeraSafe Speed.

8. Clean cut the inner corner with scissors or a knife, see image. **9.** Continue with the next KeraSafe+ from the inner corner. Apply KeraSeal or KeraSafe Speed to the overlap. **10.** Evenly spread the KeraSeal or KeraSafe Speed adhesive with a adhesive spreader to ensure the overlap is fully coated with adhesive. Then apply Kiilto K2, M1000 ECO or KeraSafe Speed to the wall that is to be covered with the next KeraSafe+ but not onto the KeraSeal adhesive if used. **11.** Install a new KeraSafe+ immediately onto the wet adhesive. Press out any air behind the foil.

Wetroom membrane
Tile adhesive
Sealant
plugs (if used)

12. KeraSafe+ can also be installed edge to edge. **13.** In the case of edge to edge installation the joints must be sealed with KeraSafe skarvremsa. Apply KeraSeal or KeraSafe Speed over the joint within the marker. Then firmly press the joint strip directly onto the wet adhesive. **14.** Apply KeraSeal or KeraSafe Speed around inlets and pipes that is to be covered with a KeraSafe Kragmanschett. Then install the gasket directly onto the wet adhesive. **15.** Installation to concrete is to be done with plastic plugs and screws. Avoid drilling holes in wet zone 1. Use e.g. Kiilto Premium, Kiilto Masa or Kiilto Clear that has good adhesion to most materials. If installing with screws, apply Kiilto Våtrumssilikon before inserting the plug and also before screwing in the screws.

FLOOR WITH KERASAFE+ FOIL SYSTEM

The instructions apply to wet zone 1 or the entire wetroom area.

...CONTINUE WITH THE FLOOR

KeraSafe+ (water and vapor proof foil) is to be installed with Kiilto K2 Tätskikt, M1000 ECO or KeraSafe Speed on an absorbing substrate. All length are to overlap by 5 cm. Joints and tape must always be installed with KeraSeal or KeraSafe Speed.

1. Roll och brush Kiilto Keraprimer on a absorbing substrate. Let dry. (If KeraSafe+ wetroom foil is to be installed with M1000 ECO, Keraprimer is not needed). **2.** Continue with the floor drain. Purus drain: Remove the circular clamp ring out of the floor drain and place the base of the Purus knife into the drain. For other drains, see complete installation instructions at www.kiilto.se. **3.** Install the self-adherent Kerabrunnsmanschetten over the floor drain and make a small hole for the guide pin of the Purus knife.

4. Measure and cut KeraSafe+ so that it completely overlap the KeraSafe+ floor overlap that should extend at least 5 cm out into the floor. When measuring, also prepare for possible holes for outlets.
5. Apply and evenly spread KeraSeal or KeraSafe Speed over the whole of the drain gasket with an adhesive spreader, see image. **6.** Apply and evenly spread KeraSeal or KeraSafe Speed on the floor overlap.
7. Then roll Kiilto K2, M1000 ECO or KeraSafe Speed onto the other surfaces that are to be covered on the floor, however not on the drain gasket or the overlap that is applied with KeraSeal or KeraSafe Speed.
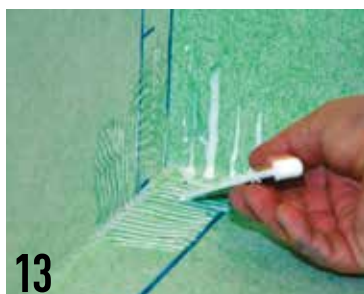Approx. consumption: Kiilto K2: 0.4 kg/m², M1000 ECO: 0.25 litre/m², KeraSafe Speed: 0.6 kg/m²
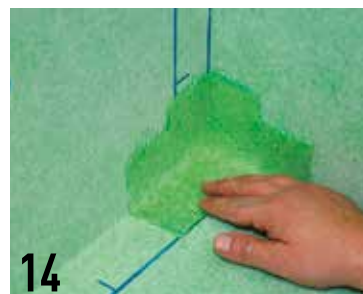

8. Roll KeraSafe+ directly onto the whole floor and over overlaps from the wall in the wet foil adhesive and KeraSeal or KeraSafe Speed. **9.** Press KeraSafe+ firmly into position and ensure all air bubbles are removed from under the KeraSafe+. **10.** Cut a hole with the Purus knife. Lift the base of the Purus knife out of the drain. **11.** Place the circular clamp ring over the drain, use the drain strainer enclosed, push the drain stainer down to press the clamp ring into the correct position.

ADVICE

KeraSeal is a damp and wet tolerant adhesive. Tolerance can be speeded up by increasing the moisture content in the material with a mist sprayer. We recommend doing this on larger surfaces that are to be covered in adhesive, e.g. drain gasket.

12. Apply KeraSeal or KeraSafe Speed around the inlets and install the KeraSafe Kragmanchett into the wet adhesive. **13.** Apply and evenly spread KeraSeal or KeraSafe Speed where the inner and outer corners will be placed. **14.** Then install the corner pieces in the wet adhesive and press firmly into place to ensure no air bubbles remains. Tiling can be continued earliest after 12 hours.
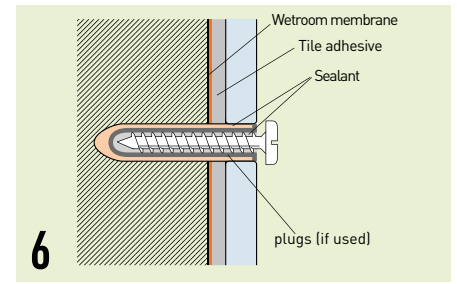
WALL TILING

1. Apply a thin contact layer of Kiilto Superfix DF, Lightfix, Flexfix, Kerapid DF or Highflex S2 DF with the smooth side of a tile adhesive applicator. Immediately spread the fixing adhesive with the notched side of the applicator. The combed adhesive has a working time of approx. 15 minutes, the surface must not become dry. **2.** Press the tiles firmly onto the surface and tap into position immediately. It is recommended to randomly lift tiles during the application to ensure sufficient coverage of tile backs. **3.** Apply Kiilto Våtrumssilikon in angles and corners and around inlets and woodwork etc. Smooth with a finger or a silicone finisher dipped in soapy water within 10 minutes. We recommend using masking tape to obtain a smooth and even joint.

4. Grouting can normally be done the day after the tiles have been installed or when the adhesive has dried. Remove excess adhesive to half the depth of the joints. Grout with Kiilto Kakelfog. Avoid using grout in angles and corners at inlets and woodwork etc. Use instead Kiilto Våtrumssilikon. **5.** Roughly clean the tiles a with a damp stiff sponge. When the grout has dried, clean the tiles properly with a dry cloth. **6.** Installation to concrete is to be done with plastic plugs and screws. Avoid drilling holes in wet zone 1. Use e.g. Kiilto Premium, Kiilto Masa or Kiilto Clear that has good adhesion to most materials. If installing with screws, apply Kiilto Våtrumssilikon before inserting the plug and also before screwing in the screws.
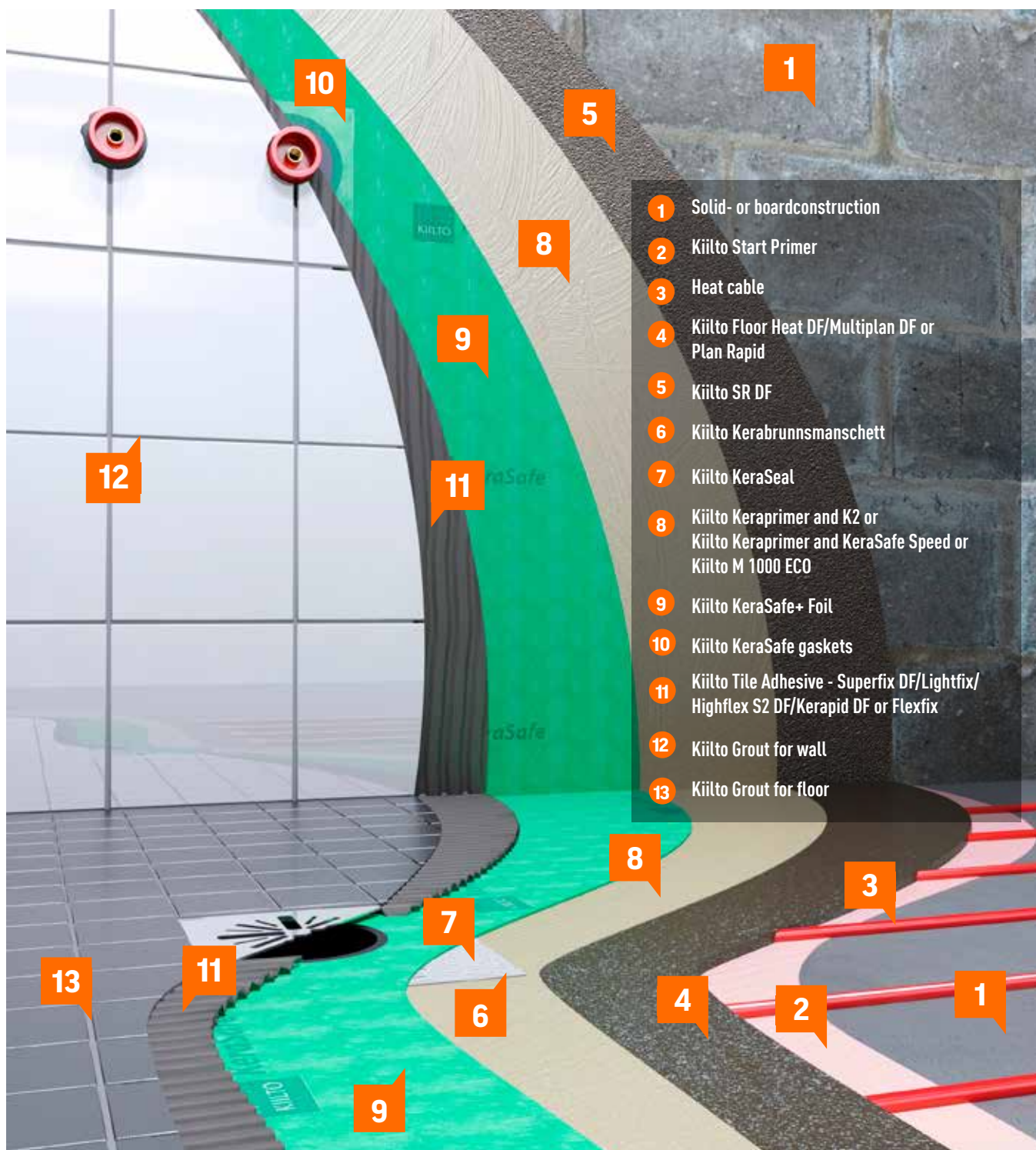
FLOOR TILING

1. Apply a thin contact layer of Kiilto Superfix DF, Lightfix, Flexfix, Kerapid DF or Highflex S2 DF with the smooth side of a tile adhesive applicator. Immediately spread the fixing adhesive with the notched side of the applicator. The combed adhesive has a working time of approx. 15 minutes, the surface must not become dry. **2.** Press the tiles firmly into place with a twisting movement so the back of the tiles are fully covered with adhesive. To check for adhesion, a few tiles should be removed after application. The back of the tiles should be totally covered in adhesive. **3.** The floor can normally be grouted after 1 – 3 days or when the adhesive has dried out. Remove excess adhesive to half the depth of the joints. Grout with Kiilto Klinkerfog. Avoid using grout in angles and corners at inlets and woodwork etc. Use instead Kiilto Våtrumssilikon.

4. Roughly clean the tiles a with a damp stiff sponge. When the grout has dried, clean the tiles properly with a dry cloth.
5. Apply Kiilto Våtrumssilikon* in angles and corners, around inlets and woodwork etc. Smooth within 10 minutes with a finger or a silicone finisher, dipped in soapy water. We recommend using masking tape to obtain a smooth and even joint.
For for interior installations see image 6 on this page.
Wetroom silicon sealant must not be used on clinker frames.

Legend:

1. Solid- or boardconstruction
2. Kiilto Start Primer
3. Heat cable
4. Kiilto Floor Heat DF/Multiplan DF or Plan Rapid
5. Kiilto SR DF
6. Kiilto Kerabrunnsmanschett
7. Kiilto KeraSeal
8. Kiilto Keraprimer and K2 or Kiilto Keraprimer and KeraSafe Speed or Kiilto M 1000 ECO
9. Kiilto KeraSafe+ Foil
10. Kiilto KeraSafe gaskets
11. Kiilto Tile Adhesive - Superfix DF/Lightfix/ Highflex S2 DF/Kerapid DF or Flexfix
12. Kiilto Grout for wall
13. Kiilto Grout for floor

Consumption Tile Adhesive kg/m²

Notched trowel	FLEXFIX	SUPERFIX DF	LIGHTFIX	KERAPID DF	HIGHFLEX S2 DF
4 mm	2,0	1,5	1,5	2,0	0.8
6 mm	2,7	2,2	2,2	2,7	1.2
8 mm	3,4	2,7	2,7	3,4	1,7
10 mm	4,1	3,3	3,3	4,1	2,2
12 mm	4,8	4,0	4,0	4,8	-

Consumption Grout kg/m²

Tile size	2 mm	3 mm	4 mm	5 mm	6 mm	8 mm	10 mm	12 mm
5 x 5 cm	0,6	0,8	1,0	1,0	1,3	-	-	-
10 x 10 cm	0,5	0,7	0,9	1,2	1,4	1,7	1,9	2,1
15 x 15 cm	0,4	0,5	0,8	0,9	0,9	1,2	1,5	1,8
10 x 20 cm	0,4	0,6	0,8	1,1	1,2	1,3	1,6	1,9
20 x 20 cm	0,4	0,4	0,7	0,8	0,8	0,9	1,2	1,5
20 x 25 cm	0,3	0,4	0,5	0,7	0,8	0,8	1,0	1,2
25 x 25 cm	0,3	0,4	0,5	0,6	0,7	0,8	0,9	1,1
30 x 30 cm	0,3	0,3	0,4	0,5	0,6	0,7	0,8	1,0

CHECK LIST

	Products	KeraSafe+ Foil System	Own dimensions	Consumption
Floor primer	Kiilto Startprimer - Consumption 1 litre for 8-10 m²	●		litre
Self levelling screed	Kiilto Floor Heat DF - Consumption 1,7 kg/m² and mm	●		kg
Self-levelling screed	Kiilto Multiplan DF - Consumption 1,7 kg/m² and mm	●		kg
Self-levelling screed	Kiilto Plan Rapid - Consumption 1,7 kg/m² and mm	●		kg
Sealant layer primer	Kiilto Keraprimer - Consumption 1 litre for 8-10 m²	●		liter
KeraSafe+ Foil System	Kiilto K2 Tätskikt - Consumption 0,4 kg/m² Kiilto M1000 ECO - Consumption 0,25 litre/m²	●		kg/litre
KeraSafe+ Foil System	KeraSafe+ Våtrumsfolie - Width 0,66, 1 and 2 meter	●		metre
KeraSafe+ Foil System	KeraSafe Speed, adhesive for foil - Consumption 0,6 kg/m²	●		kg
KeraSafe+ Foil System	KeraSeal adhesive sealant - Consumption approx. 2x 0,75 litre (a standard bathroom)	●		0,75 litre
Drain gasket	Kiilto Kerabrunnsmanschett - 1 per drain	●		pcs
Sealant strip	KeraSafe Skarvremsa - 10 cm x 20 m (roll)	●		metre
Gaskets	KeraSafe Kragmanschett 10-16 mm	●		pcs
Gaskets	KeraSafe Kragmanschett 18-34 mm	●		pcs
Gaskets	KeraSafe Kragmanschett Duo CC40 18 - 34 mm	●		pcs
Gaskets	KeraSafe Kragmanschett 34-55 mm	●		pcs
Gaskets	KeraSafe Kragmanschett 55-75 mm	●		pcs
Gaskets	KeraSafe Kragmanschett 100-140 mm	●		pcs
Corner gasket	KeraSafe Ytterhörn	●		pcs
Corner gasket	KeraSafe Innerhörn	●		pcs
Tile Adhesive	Kiilto Flexfix - Consumption 2,0-4,8 kg/m² (see page 5)	●		kg
Tile Adhesive	Kiilto Superfix DF - Consumption 1,5-4,0 kg/m² (see page 5)	●		kg
Tile Adhesive	Kiilto Lightfix - Consumption 1,5-4,0 kg/m² (see page 5)	●		kg
Tile Adhesive	Kerapid DF Snabbfix - Consumption 2,0-4,8 kg/m² (see page 5)	●		kg
Tile Adhesive	Kiilto Highflex S2 DF - Consumption 0,8-1,2 kg/m² (see page 5)	●		kg
Grout for walls	Kiilto Kakelfog - Consumption 0,5-1,5 kg/m² (see page 5)	●		kg
Grout for floors	Kiilto Klinkerfog - Consumption 1,0-2,0 kg/m² (see page 5)	●		kg
Silicone sealant	Kiilto Våtrumssilikon - Consumption approx. 12 running metres per 310 ml	●		310 ml

IMPORTANT

Our installation instructions must be followed and the products specified must be used for our approved wetroom system for floor and wall installation with KeraSafe+ Foil System to be valid.